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 Contents of foreign educational periodicals.
 

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*Pädagogisches archiv*, Dec. 8. — Bericht über die abteilung für naturwissenschaftlichen unterricht auf der 59. Versammlung deutscher naturforscher und ärzte in Berlin, 1886. — Die neueren philologischen bestrebungen der Franzosen, Dr. L. Schmidt. — Konstituirende versammlung zur begründung eines 'Deutschen einheitsschulvereins' zu Hannover, Dr. L. Vierck. — Beurteilungen, anzeigen, u.s.w.

*Zeitschrift für schul-geographie*, December. — Das geographische museum am Mariahilfer Gymnasium in Wien. — Ein tellurium mit elliptischer erdbahn und ein neues planetarium, Dr. Adolf Dronke. — Der geographische leitfaden. — Beitrag zu einer morphologie des Kosmos, H. Habenicht. — Der Mit-telrhein und sein Vulcangebiet. — Notizen, u.s.w.

*Canada educational monthly*, January. — Notes upon habits, Prof. M. Macvicar. — Annual convocation of Queen's university, N. F. Dupuis. — Prose poems. — The curriculum of a French lycée, W. H. Fraser. — Notes for teachers. — Correspondence, etc.

*Educational times*, January. — On matter and force : nomenclature and methods of elementary dynamics. — Meeting of the Council of the college of preceptors — Education in India. — University and college intelligence. — Educational progress of the past half-century. — Changes in the head-masterships of the great public schools during the past year. — Rugby under Dr. Jex-Blake. — The Harvard celebration. — Report of the teachers' training syndicate at Cambridge. — Reviews, notices, etc.

*Journal of education*, January. — Occasional notes. — English literature in public schools. — The conference of head masters. — Dr. Jowett on Boswell's 'Johnson.' — Reviews. — Women and culture, Mrs. William Grey. — A fair field and no favor. — Correspondence. — The teachers' guild of Great Britain and Ireland. — Notices of books. — Foreign notes. — Schools and universities. — Our translation prize. — The training of the faculties of judgment and reasoning (concluded). — Education in Australia (concluded). — Geographical exhibition and conference at Bradford.

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 Educational articles in miscellaneous periodicals.
 

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Bert's science in politics. Madame Adam. *Contemporary review*, January.

Contemporary philosophy in France. Unsigned. *New Princeton review*, January.

Délégation française aux Etats-Unis ; notes de voyage. Charles Bigot. *Revue politique et littéraire*, Dec. 11 and 18.

Earthquakes. Archibald Geikie. *Good words*, January.

Education intellectuelle, l'. Paul Lafitte. *Revue politique et littéraire*, Dec. 18.

Evolution of language. Unsigned. *Knowledge*, January.

Faculté de médecine de Paris en 1885-86, la. M. Béclard. *Revue scientifique*, Dec. 18.

Géologie et la géographie, la. M. Charles Vélin. *Revue scientifique*, Dec. 18.

How I was educated. James B. Angell. *Forum*, January.

Industrial education in America. W. Odell. *Nature*, Dec. 2.

[A notice of the government document on this subject, prepared by Mr. J. E. Clarke.]

Lowell on education. Unsigned. *New Princeton review*, January.

Lower education of women, the. Helen M'Kerlie. *Contemporary review*, January.

Mathematical tripos, the. J. W. L. Glaisher. *Nature*, Dec. 2.

Origin of comets and meteors. Richard A. Proctor. *Knowledge*, January.

Origines de la Bible, les. Ernest Renan. *Revue des deux Mondes*, Dec. 1.

Origines de la chimie, les : métaux et minéraux de l'antique Chaldée. M. Berthelot. *Revue scientifique*, Dec. 11.

Péril alcoolique, le. J. S. Morand. *Nouvelle revue*, Dec. 15.

Possible limitations of the elective system, II. Prof. George H. Palmer. *Andover review*, January.

[This article closes the discussion as to the extent and merits of the elective system, introduced by Professor Palmer a year ago.]

Present position of philosophy in Britain, the. Henry Calderwood. *New Princeton review*, January.

Religion in the public schools. Archibald Alexander Hodge. *New Princeton review*, January.

Science in Norway. Unsigned. *Nature*, Dec. 9.

Science notes. W. Mattieu Williams. *Gentleman's magazine*, January.

Travail psychique et la force chimique, le. Charles Richet. *Revue scientifique*, Dec. 18.

Ueber die Wahrscheinlichkeitsrechnung u. deren anwendung auf die statistik. W. Lexis. *Jahrbücher für Nationalökonomie u. Statistik*, Nov. 13.

University education in the United States. Charles K. Adams. *Contemporary review*, January.

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 Publications received at Editor's Office, Jan. 10-15.
 

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ANDREWS, T. Effect of temperature on the strength of railway axles. London, Inst. civ. eng. 33 p. 12°.

BARROWS, Isabel C., ed. Proceedings of the national conference of charities and correction, at the thirteenth annual session held in St. Paul, Minn., July 15-22, 1886. Boston, G. H. Ellis 12-457 p. 8°.

BELROSE, Louis, Jr. To the poet-laureate. Washington, Bren-tano. 4 p. 16°.

BRIFFAULT, F. Constantinople water-works. London, Inst. civ. eng. 11 p. 12°.

CLARK, J. S. A practical rhetoric for instruction in English composition and revision in colleges and intermediate schools. New York, Holt. 381 p. 12°.

COWAN, D. The Carron iron works. Scotland. London, Inst. civ. eng. 15 p. 12°.

ENDE, M. am. Formulas for the weights of girder bridges. London, Inst. civ. eng. 8 p. 12°.

FÖRSTER, M. von. Compressed gun cotton for military use. Tr. by J. P. Wisser, with introduction on modern gun cotton. New York, Van Nostrand. 164 p. 24°. 50 cents.

GRUENEWALD, J. R. Description of the viaduct over the river Retiro. London, Inst. civ. eng. 4 p. 12°.

HUNTER, G. M. Locomotive engine- and carriage-sheds as used on the Caledonian railway. London, Inst. civ. eng. 13 p. 12°.

KING, M. Harvard and its surroundings. 7th ed. Boston, Rand Avery company. 102 p. 16°.

MARTIN and WETZLER. The electric motor and its applications. New York, Johnston. 208 p. 10°. \$3.

MASSACHUSETTS fish and game commissioners' report of, for year ending Dec. 31, 1886. (Pub. doc. No. 25.) Boston, State. 91 p. 8°.

PHILBRICK, P. H. Beams and girders. New York, Van Nostrand. 159 p. 24°. 50 cents.

SCHWATKA, F. Report of a military reconnaissance in Alaska, made in 1883. Washington, Government. 121 p. 8°.

SECULAR thought. Vol. i. No. 1. Toronto, Charles Watts. \$2. U. S. NAVAL academy, Annapolis, Md., annual register of, 1885-86. Washington, Government. 70 p. 8°.

U. S. NAVAL advisory board, report of, on mild steel. Washington, Government. 216 p. 8°.  
— department. Annual report of the hydrographer to the bureau of navigation for the year ending June 30, 1886. Washington, Government. 51 p. 8°.  
U. S. SENATE. Report of the select committee on ordnance and war ships, with appendix. Washington, Government. 512 p. 8°.  
WHITNEY, W. D. Practical French grammar. New York, Holt. 442 p. 12°.

### Calendar of Societies.

#### *Philosophical society, Washington.*

Jan. 15.—G. K. Gilbert, The graphic method in research; C. D. Walcott, Geologic age of the lowest formation of Emmons's Taconic system; H. A. Hazen, The sky glows of 1883; H. A. Hazen, Lunar atmospheric tides.

Jan. 22.—F. W. Clarke, Present status of mineralogy; R. T. Hill, The topography and geology of the cross timbers of Texas.

#### *Chemical society, Washington.*

Jan. 13, election of officers for 1887.—President, Prof. E. I. Fristoe; vice-presidents, Prof. F. W. Clarke and Dr. J. H. Kidder; treasurer, Prof. William H. Seaman; secretary, Dr. A. C. Peale; members at large of executive committee, Mr. Edgar Richards, Prof. H. W. Wiley, Mr. J. S. Diller, Prof. Thomas Robinson.

W. H. Seaman, Models of molecular structure.

#### *Biological society, Washington.*

Jan. 22.—G. Brown Goode, The beginnings of natural history in America: the third century.

#### *Natural science association, Staten Island.*

Jan. 8.—Mr. Gratacap, Drift fossils of Staten Island; W. T. Davis, Short account of two interesting insects from the island.

#### *Torrey botanical club, New York.*

Jan. 11.—Dr. Britton, Curtis's latest fascicle of southern plants; H. H. Reesby, Botanical notes from South America.

Annual meeting, election of officers.—President, Dr. J. S. Newberry; vice-president, Thomas Hogg; treasurer, F. J. H. Merrill; recording secretary, Arthur Hollick; corresponding secretary, Miss H. C. Gaskin; curator, Miss M. O. Steele; librarian, Dr. N. L. Britton; editor, Elizabeth G. Britton; associate editors, F. J. H. Merrill, Jos. Schrenk, H. H. Reesby, C. H. Kain.

#### *Connecticut academy of arts and sciences.*

Jan. 19.—J. W. Fewkes, Is the vast mass of oceanic water, between the surface and bottom, barren of life, or occupied by a peculiar fauna?

#### *New England meteorological society, Boston.*

Jan. 18.—G. L. Goodale, Some supposed relations between forests and atmospheric ozone; F. V. Pike, Comparisons of rain-gauges at Newburyport; W. M. Davis, Winter temperatures about Mount Washington.

#### *Society of arts, Boston.*

Jan. 20.—Edward Burgess, The evolution of the modern yacht.

#### *Society of natural history, Boston.*

Jan. 19.—J. S. Kingsley, Arthropod development.

### Advertised Books of Reference.

THE STANDARD NATURAL HISTORY. By all the leading American scientists. Edited by J. S. Kingsley, Ph.D. Vol. I. Lower Invertebrates. Vol. II. Crustacea and Insects. Vol. III. Fishes and Reptiles. Vol. IV. Birds. Vol. V. Mammals. Vol. VI. Man. 6 vols., nearly 2,500 illustrations and 3,000 pages. Imp. 8vo, cloth, \$36.00; half morocco, \$48.00. S. E. Cassino & Co. (Bradlee Whidden), Publishers, Boston.

THE BUTTERFLIES OF THE EASTERN UNITED STATES. For the use of classes in zoölogy and private students. By G. H. French, A.M. Illustrated by 93 engravings and a map of the territory represented. Large 12mo. Cloth. \$2.00. J. B. Lippincott Company, Pubs., Philadelphia.

LIPPINCOTT'S BIOGRAPHICAL DICTIONARY. A new, thoroughly revised, and greatly enlarged edition. A universal pronouncing dictionary of biography and mythology. Containing complete and concise biographical sketches of the eminent persons of all ages and countries. By J. Thomas, M.D., LL.D. Imperial 8vo, 2550 pages. Sheep. \$12.00. J. B. Lippincott Company, Pubs., Philadelphia.

MANUAL OF THE BOTANY OF THE ROCKY MOUNTAINS. Coulter (Wabash Coll.), 8vo., 49 pp. \$1.85. Ivison, Blakeman, Taylor & Co., Pubs., New York.

STRUCTURAL BOTANY; or, Organography on the basis of Morphology; the principles of Taxonomy and Phytophyography and a Glossary of Botanical terms. Gray (Harvard), 8vo., 454 pp. \$2.30. Ivison, Blakeman, Taylor & Co., Pubs., New York.

INSTRUCTION FOR THE DETERMINATION OF ROCK-FORMING MINERALS. By Dr. Eugen Hussak, Privat Docent in the University of Grau. Translated from the German by Erastus G. Smith, Professor of Chemistry and Mineralogy, Beloit College. With 103 plates, 8vo, cloth. \$3.00. John Wiley & Sons, Pubs., Astor Place, New York.

INSECTS INJURIOUS TO FRUITS. By Prof. William Saunders, F.R.S.C. Handsomely illustrated with 440 wood engravings. Crown, 8vo. Cloth. \$3. J. B. Lippincott Company, Pubs., Philadelphia.

WILSON.—AMERICAN ORNITHOLOGY; or, The Natural History of the Birds of the United States. By Alexander Wilson. With a life of the author, by George Ord, F.R.S. With continuation by Charles Lucien Bonaparte (Prince of Musignano). POPULAR EDITION, complete in one volume with 385 figures of birds. Imp. 8vo. Cloth, \$7.50. Half Turkey mor., \$12.50. Porter & Coates, Philadelphia.

THE INTERNATIONAL CYCLOPEDIA. The best for popular use and specially adapted for ready reference. Fifteen royal 8vo volumes. 13,296 pages, 49,649 leading titles. Sold only by subscription. Capable salesmen wanted. Dodd, Mead & Co., Pubs., New York.

ANNALS OF MATHEMATICS. Edited by Ormond Stone and William M. Thornton. Office of Publication: University of Virginia. \$2 per vol. of 6 nos.

SCIENCE-ECONOMIC DISCUSSION. A controversy between the adherents of the old and new schools of political economy regarding their main points of difference, by Henry C. Adams, Richard T. Ely, Arthur T. Hadley, E. J. James, Simon Newcomb, Simon N. Patten, Edwin R. A. Seligman, Richmond M. Smith, and Frank W. Taussig. 12mo. Paper, 50 cts. Science Company, Pubs., New York.

PHYSIOLOGICAL BOTANY: I. Outlines of the Histology of Phaenogamous Plants; II. Vegetable Physiology. Goodale (Harvard) 8vo., 560 pp. \$2.30. Ivison, Blakeman, Taylor & Co., Pubs., New York.

SCRIBNER'S STATISTICAL ATLAS OF THE UNITED STATES: Showing by Graphic Methods their Present Condition, and their Political, Social, and Industrial Development, as Determined by the Reports of the Tenth Census, the Bureau of Statistics, the Commissioner of Education, State Officials, and other Authoritative Sources. 120 Pages Text, 151 plates (31 double), 279 Maps (22 folio), 969 Charts and Diagrams. Sold only by Subscription. Descriptive circular sent on application. Charles Scribner's Sons, Pubs., 743 and 745 Broadway, New York.

MAMMALS OF THE ADIRONDACKS. By Dr. C. Hart Merriam. Contains an introductory chapter treating of the location and boundaries of the region, its geographical history, topography, climate, general features, botany, and faunal position. This work consists, in the first place, of a general account of the prominent features of the Adirondack region; and, secondly, of a popular narrative of the habits of the animals found within its confines. Imp. 8vo. \$3.50. Henry Holt & Co., New York.